

# Work Order ID: 73563

Friday, September 02, 2011 10:06:56 AM



Page 1

Item ID: D3589-1

Revision ID:

Item Name: ARM

Start Date: 9/2/2011 Start Qty: 4.00

Required Date: 9/9/2011 Req'd Qty: 4.00

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

Draw Nbr

Revision Nbr

D3589

Rev B

100

0.00



Small Fab

Memo

0.00

Small Fab

1- cut D3589-1 as per dwg D3589  
2- chamfer both ends as per dwg D3589  
3- deburr

110

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

Quality Control

120

Identify as per dwg & Stock Location: STWA

0.00



Packaging

Memo

0.00

Packaging

Accept



Setup Start



Stop



Cust Item ID:

Customer:

Run Start



Stop



9/11/09/14 (5)

(5)

(5) 11-09-15

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Work Order ID 73563

Friday, September 02, 2011 10:06:56 AM



Page 2

Item ID: D3589-1

Accept



Setup Start



Revision ID:

Stop



Item Name: ARM

Start Date: 9/2/2011 Start Qty: 4.00



Cust Item ID:

Required Date: 9/9/2011 Req'd Qty: 4.00



Customer:

Reference:

Run Start



Approvals: Process Plan: Date:

Tooling: Date:

Stop



QC: Date:

SPC (Y/N): Date:

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

130

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

11/9/16

MF  
11-09-15

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

Friday, September 02, 2011 10:06:54 AM

Page 1

Work Order ID: 73563

Parent Item: D3589-1

Parent Item Name: ARM



Start Date: 9/2/2011

Required Date: 9/9/2011

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP Rev:A 08-05-29 new issue DD verified by:EC  
02-20 rev.b asper dwg DD verified by:EC  
IPP Rev:B 09-

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

M304TR0.375W.065

Purchased

No

100

f

10.0000

1.65

6.633166



304 RD Tube .375 x .065W



*Handwritten signature*  
9/11/09/14

Location

Loc Qty

Loc Code

MAT016

10

111097

10

8.25

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

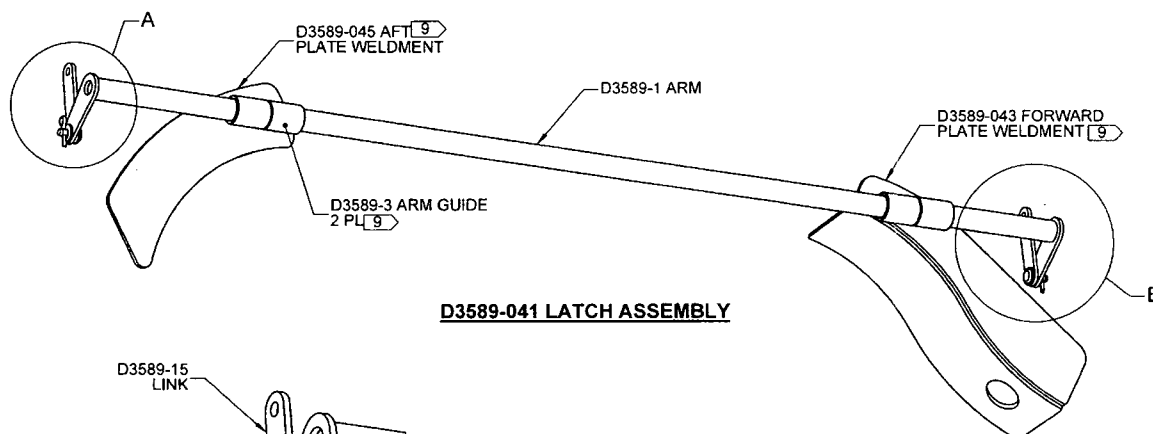
Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

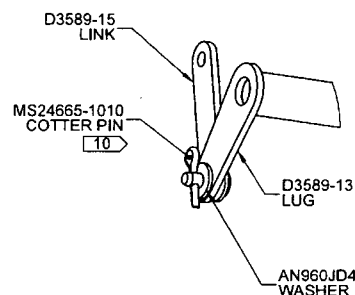
NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

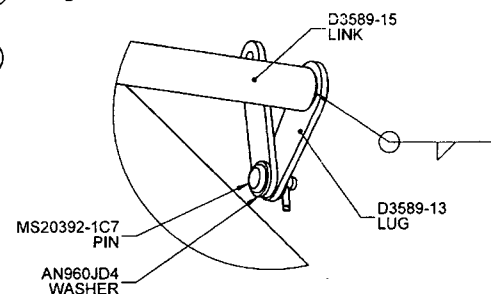
QTY. -041	P/N	DESCRIPTION
X	D3589-041	LATCH ASSEMBLY
1	D3589-045	AFT PLATE WELDMENT
1	D3589-043	FORWARD PLATE WELDMENT
1	D3589-1	ARM
2	D3589-3	ARM GUIDE
2	D3589-13	LUG
2	D3589-15	LINK
4	AN960JD4	WASHER
2	MS20392-1C7	PIN
2	MS24665-1010	COTTER PIN



**D3589-041 LATCH ASSEMBLY**



**DETAIL A: LINK ASSEMBLY DETAIL**  
SCALE 2X  
2 PL



**DETAIL B: WELDING AND  
LINK ASSEMBLY DETAIL**  
SCALE 2X  
2 PL

**RELEASED**  
*8/16/08*

B	0.90 AND 0.63 REF WERE 1.97 AND 0.60 (ZN C6-2); 0.50 WAS 1.89 (ZN C3-2); 0.75 REF REPLACES 2.01 (ZN C2-2); 28" WAS 15" (ZN B2-2); 19.00 WAS 18.88 (ZN D4-4); REDESIGNED D3589-9 (ZN A6-8) AND D3589-11F (ZN C2-3) REASON: REDESIGN FOR PROPER FIT AND TO MATCH TESTED CONFIGURATION	MB	08.06.25
A	NEW ISSUE	MB	08.05.29
REV.	DESCRIPTION	BY	DATE
DESIGN	A		
DRAWN	A		
CHECKED	PH		
MFG. APPR.	PH		
APPROVED	PH		
DE APPR.	PH		
DATE	08.06.25		
<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA DRAWING NO. <b>D3589</b> TITLE <b>LATCH ASSEMBLY</b> SCALE <b>NTS</b> <small>COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMERCIALIZED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>			

**D3589-041 NOTES:**

- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3589-041" USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 0.73 lbs
- 8) WELDING: PER DART QSI 004 USING DT9033
- 9) IDENTIFIED PARTS ARE LOOSE ON D3589-1 ARM
- 10) INSTALL COTTER PIN IN ACCORDANCE WITH MS33540

*13563*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

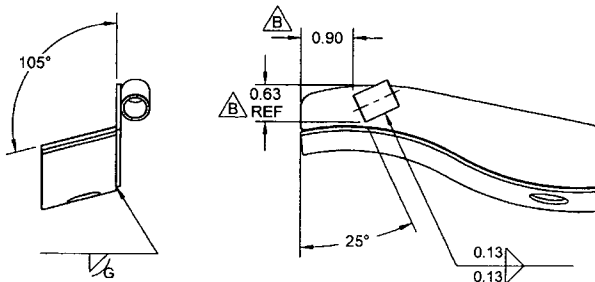
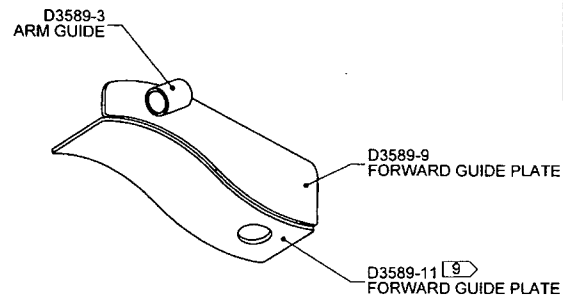
Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

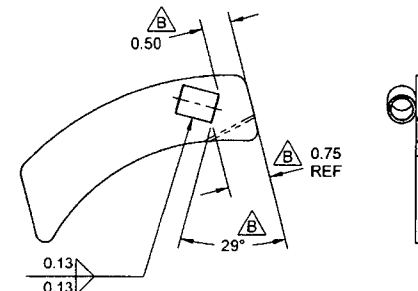
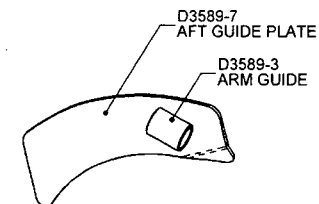
**NOTE:** Date & initial all entries



QTY -043	QTY -045	P/N	DESCRIPTION
X		D3589-043	FORWARD PLATE WELDMENT
	X	D3589-045	AFT PLATE WELDMENT
1	1	D3589-3	ARM GUIDE
1	1	D3589-7	AFT GUIDE PLATE
1		D3589-9	FORWARD GUIDE PLATE
1		D3589-11	FORWARD GUIDE PLATE



**D3589-043 FORWARD PLATE WELDMENT**



**D3589-045 AFT PLATE WELDMENT**

**D3589-043/-045 NOTES:**

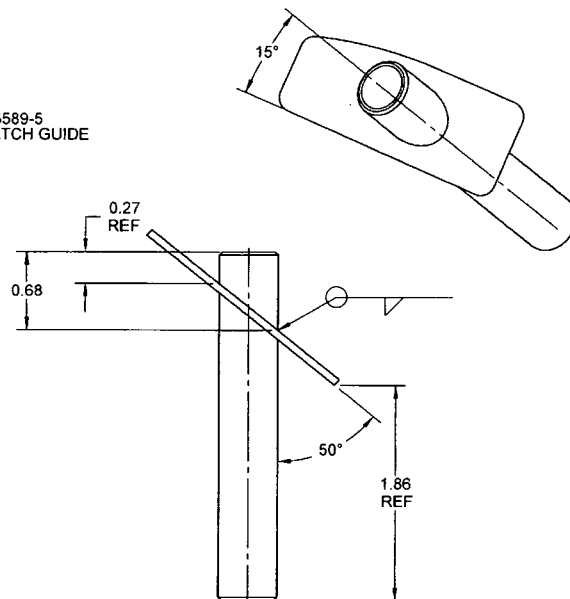
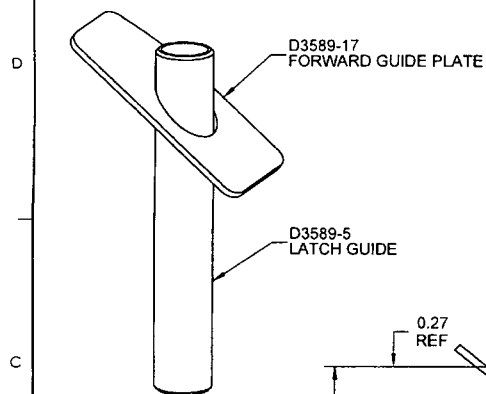
- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3589-0XX" USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT:
  - D3589-043 = 0.22 lbs
  - D3589-045 = 0.10 lbs
- 8) WELDING: PER DART QSI 004 USING DT9033
- 9) FORM D3589-11 TO FIT D3589-9 MATING EDGE

DESIGN		<b>DART AEROSPACE LTD</b>	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO. <b>D3589</b>	REV. B
MFG. APPR.			SHEET 2 OF 8
APPROVED		TITLE <b>LATCH ASSEMBLY</b>	SCALE
DE APPR.			NTS
DATE	08.06.25	<small>COPYRIGHT © 2006 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

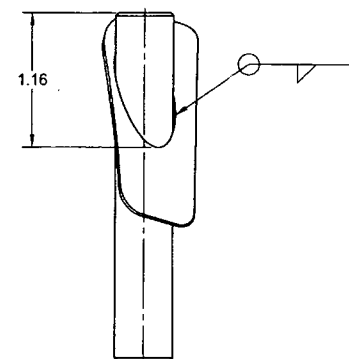
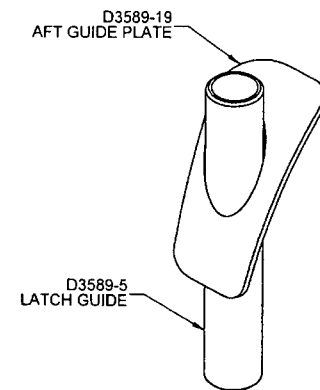
**RELEASED**  
09/02/05

73563

QTY -047	QTY -049	P/N	DESCRIPTION
X		D3589-047	FORWARD GUIDE
	X	D3589-049	AFT GUIDE
1	1	D3589-5	LATCH GUIDE
1		D3589-17	FORWARD GUIDE PLATE
	1	D3589-19	AFT GUIDE PLATE



**D3589-047 FORWARD GUIDE**



**D3589-049 AFT GUIDE**

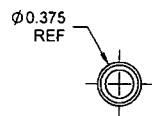
**D3589-047/-049 NOTES:**

- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3589-0XX" USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 0.07 lbs EACH
- 8) WELDING: PER DART QSI 004

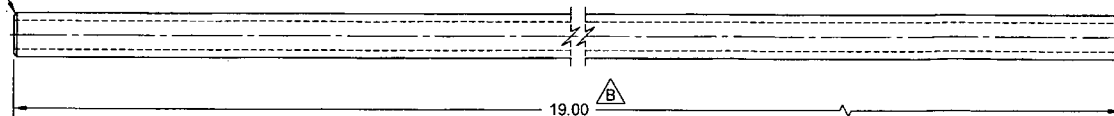
73563

**RELEASED**  
01/02/05

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DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D3589	SHEET 3 OF 8
APPROVED		TITLE	SCALE
DE APPR.		LATCH ASSEMBLY	NTS
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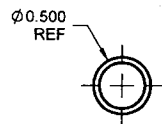


0.03 X 45°  
CHAMFER  
2 PL

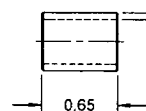


0.065  
REF

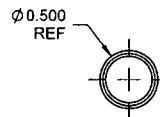
**D3589-1 ARM**



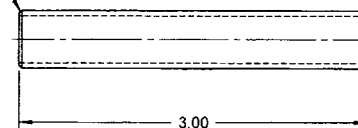
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REF



**D3589-3 ARM GUIDE**



0.03 X 45°  
CHAMFER  
2 PL



0.049  
REF

**D3589-5 LATCH GUIDE**

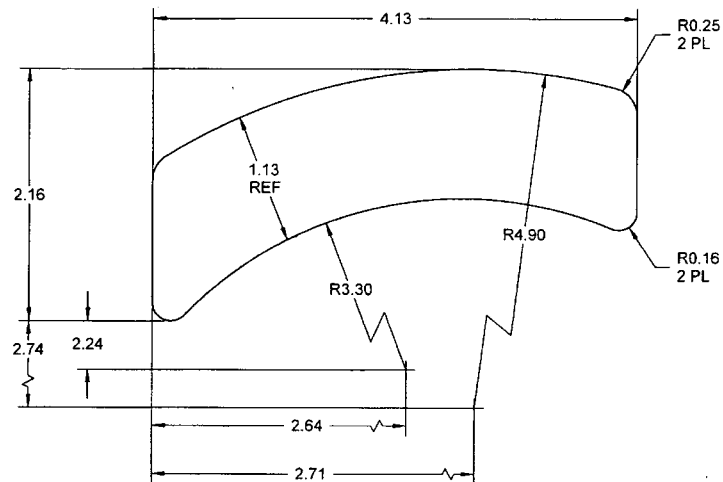
**D3589-1/-3/-5 NOTES:**

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SEAMLESS ROUND TUBING  
D3589-1: 0.375 O.D. X 0.065 WALL (REF. DART SPEC M304TR0.375W.065)  
D3589-3: 0.500 O.D. X 0.058 WALL (REF. DART SPEC M304TR0.500W.058)  
D3589-5: 0.500 O.D. X 0.049 WALL (REF. DART SPEC M304TR0.500W.049)
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: - D3589-1 = 0.34 lbs  
- D3589-3 = 0.01 lbs  
- D3589-5 = 0.06 lbs

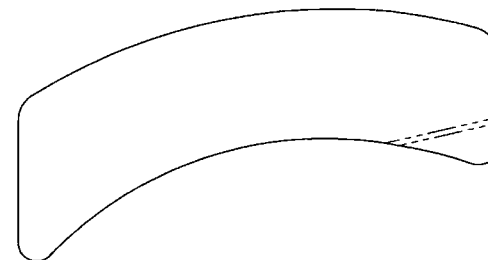
77563

**RELEASED**  
9/6/05

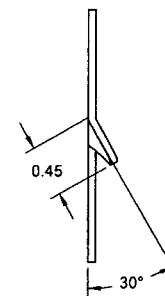
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DRAWN	<i>JS</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>PH</i>	DRAWING NO.	REV. B
MFG. APPR.	<i>DS</i>	D3589	SHEET 4 OF 8
APPROVED	<i>JS</i>	TITLE	SCALE
DE APPR.	<i>JS</i>	LATCH ASSEMBLY	NTS
DATE	08.06.25	COPYRIGHT © 2008 BY DART AEROSPACE LTD	
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**D3589-7F AFT GUIDE PLATE  
FLAT PATTERN**



**D3589-7 AFT GUIDE PLATE  
MAKE FROM D3589-7F**



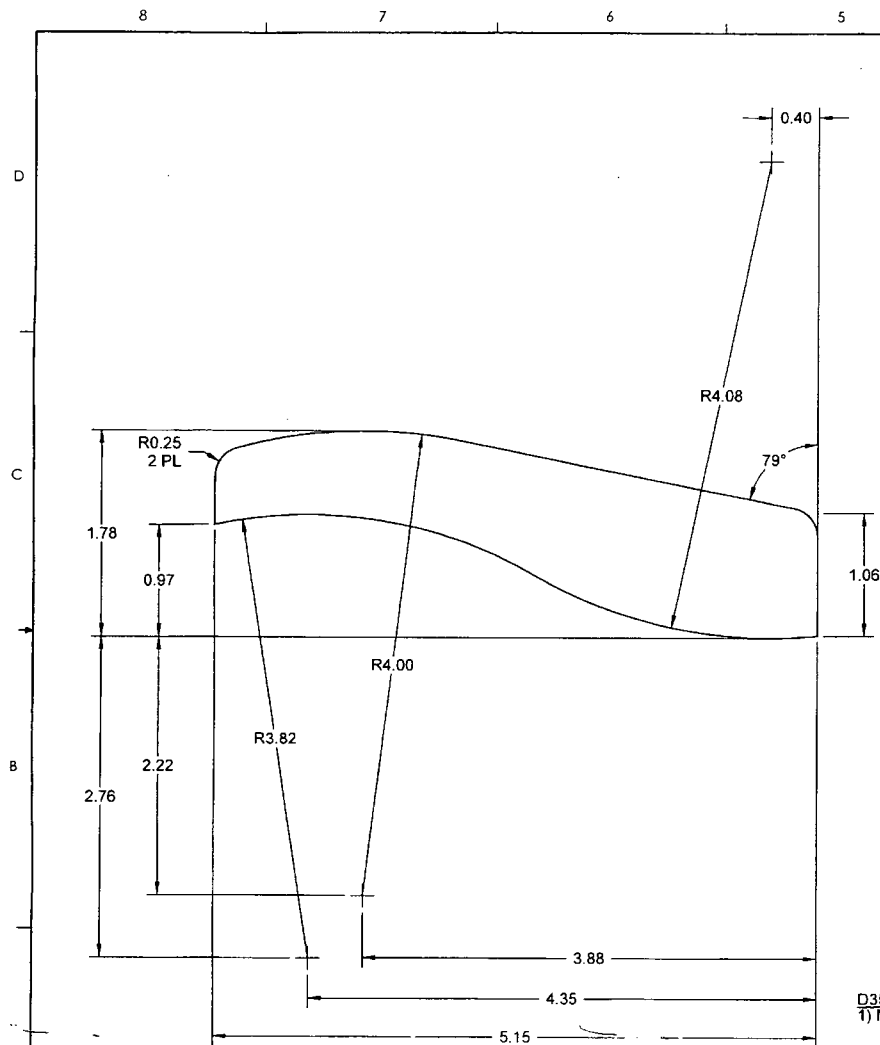
**D3589-7/-7F NOTES:**

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET, PER AMS 5513 OR AMS 5524, OR MIL-S-5059 (ANNEALED) 2B FINISH  
16 GAUGE (0.063 THICK), (REF. DART SPEC M304S16GA)
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.09 lbs

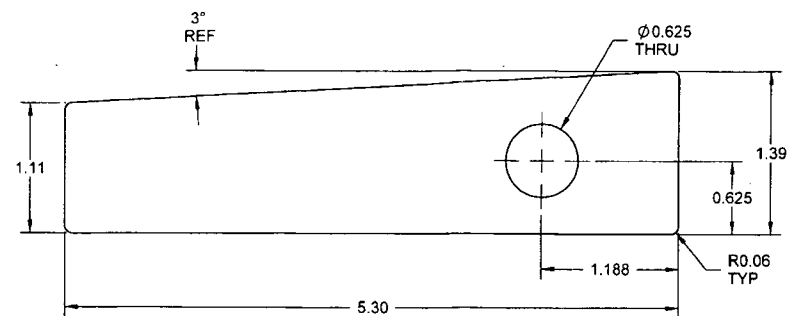
23563

**RELEASED**  
09/22/05

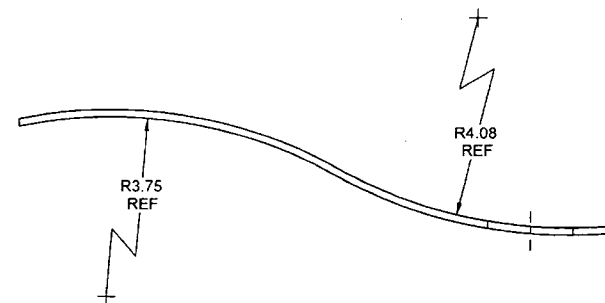
DESIGN	JH	<b>DART AEROSPACE LTD</b>	
DRAWN	JH	HAWKESBURY, ONTARIO, CANADA	
CHECKED	PH	DRAWING NO.	REV. B
MFG. APPR.	BS	D3589	SHEET 5 OF 8
APPROVED	JP	TITLE	SCALE
DE APPR.	JH	<b>LATCH ASSEMBLY</b>	
DATE	08.06.25	COPYRIGHT © 2008 BY DART AEROSPACE LTD	
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**D3589-9 FORWARD GUIDE PLATE**



**D3589-11F FORWARD GUIDE PLATE**  
**FLAT PATTERN**









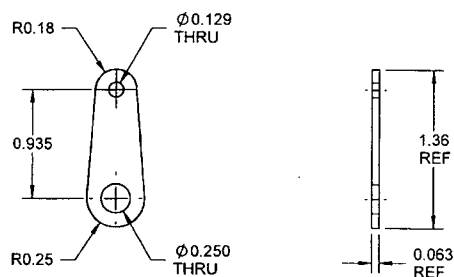
**D3589-11 FORWARD GUIDE PLATE**  
(MAKE FROM D3589-11F)

**D3589-9/-11/-11F NOTES:**

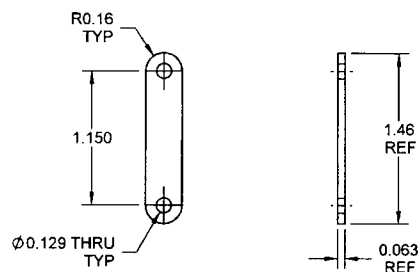
- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET,  
PER AMS 5513 OR AMS 5524,  
OR MIL-S-5059 (ANNEALED) 2B FINISH  
16 GAUGE (0.063 THICK),  
(REF. DART SPEC M304S16GA)
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS  
OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.09 lbs EACH
- 8) CONTROL SHAPE PER DT9021 TEMPLATE

**RELEASED**  
09/22/05/11/14

DESIGN		<b>DART AEROSPACE LTD</b>	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		<b>D3589</b>	SHEET 6 OF 8
APPROVED		TITLE	SCALE
DE APPR.		<b>FORWARD GUIDE PLATE</b>	NTS
DATE	<b>08.06.25</b>	COPYRIGHT © 2008 BY DART AEROSPACE LTD	
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**D3589-13 LUG**



**D3589-15 LINK**

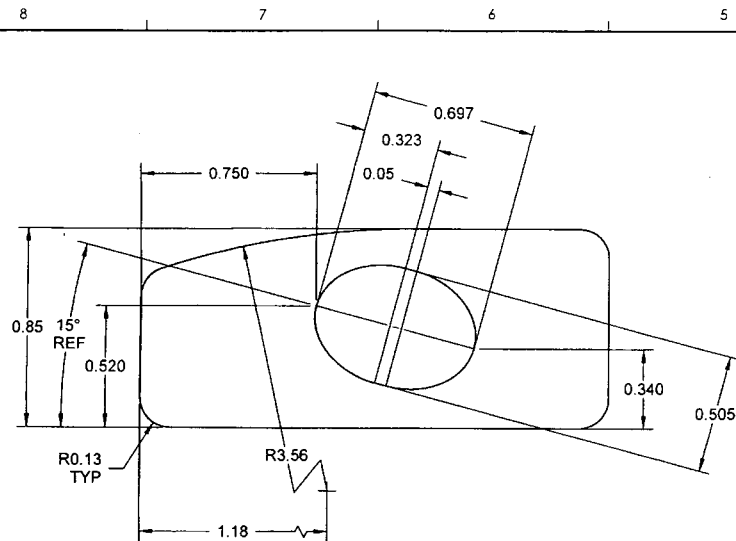
73563

**RELEASED**  
09/02/05 NTH

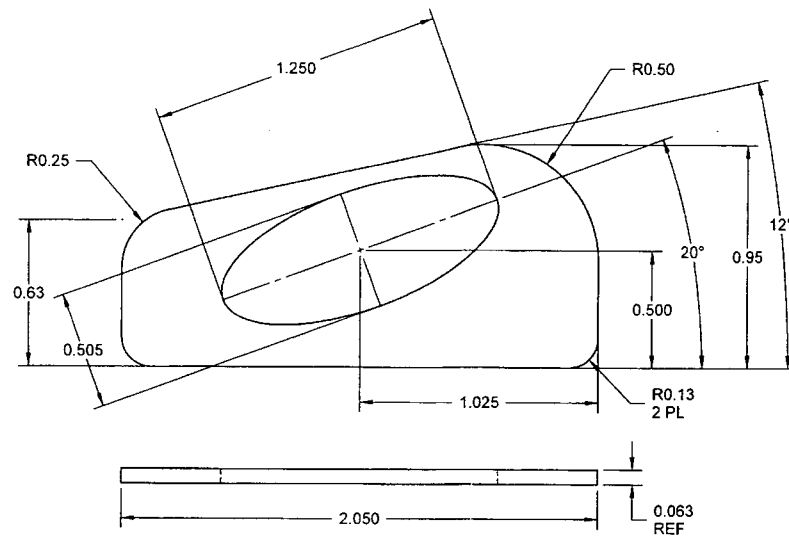
**D3589-13/-15 NOTES:**

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET, PER AMS 5513 OR AMS 5524, OR MIL-S-5059 (ANNEALED) 2B FINISH  
16 GAUGE (0.063 THICK), (REF. DART SPEC M304S16GA)
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.01 lbs EACH

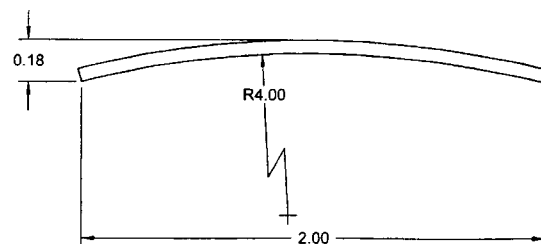
DESIGN	<i>[Signature]</i>	<b>DART AEROSPACE LTD</b>	
DRAWN	<i>[Signature]</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. B
MFG. APPR.	<i>[Signature]</i>	<b>D3589</b>	SHEET 7 OF 8
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	<b>LATCH ASSEMBLY</b>	NTS
DATE	<b>08.06.25</b>	COPYRIGHT © 2008 BY DART AEROSPACE LTD	
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**D3589-17 FORWARD GUIDE PLATE**



**D3589-19F AFT GUIDE PLATE FLAT PATTERN**



**D3589-19 AFT GUIDE PLATE**  
(MAKE FROM D3589-19F)

**RELEASED**  
09/02/05

**D3589-17/-19/-19F NOTES:**

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET, PER AMS 5513 OR AMS 5524, OR MIL-S-5059 (ANNEALED) 2B FINISH 16 GAUGE (0.063 THICK), (REF. DART SPEC M304S16GA)
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.02 lbs EACH

73563

DESIGN	JH	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	JH		
CHECKED	PH	DRAWING NO.	REV. B
MFG. APPR.	SS	D3589	SHEET 8 OF 8
APPROVED	JH	TITLE	SCALE
DE APPR.	JH	LATCH ASSEMBLY	NTS
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